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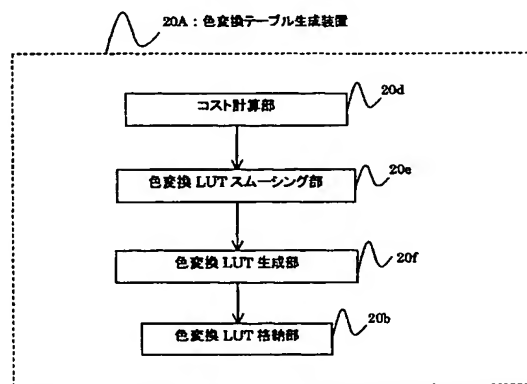
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- (84) 指定国 (広域): ヨーロッパ特許 (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR).

[続葉有]

(54) Title: METHOD OF PRODUCING COLOR CONVERSION TABLE, IMAGE PROCESSING DEVICE, IMAGE PROCESSING METHOD, PROGRAM AND RECORDING MEDIUM

(54) 発明の名称: 色変換テーブル生成方法、画像処理装置、画像処理方法、プログラムおよび記録媒体



20A...COLOR CONVERSION TABLE PRODUCING DEVICE
20d...COST CALCULATING UNIT
20e...COLOR CONVERSION LUT SMOOTHING UNIT
20f...COLOR CONVERSION LUT PRODUCING UNIT
20b...COLOR CONVERSION LUT STORING UNIT

(57) Abstract: A method of producing a color conversion table capable of enhancing continuity in an image-data color conversion, an image processing device and a method using the color conversion table, a program and a recording medium. The image processing device performs an image processing by using a color conversion table produced by using functions for evaluating a smoothing level at each element of lattice point data after color conversion by a color conversion table. Functions for evaluating the above smoothing level include a function based on the twisted quantity of ink-quantity vector, a function based on a twisted quantity at a virtual CMY, a function based on a deviation from a target ink quantity, a function based on a deviation from a target virtual CMY, a function based on a failure to meet an ink quantity limitation, a function based on ink quantity reduced to minus, and a function based on ink generation.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/00110

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ H04N1/46, H04N1/60, G06T1/00, B41J2/525

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ H04N1/40-1/409, H04N1/46-1/64

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Toroku Jitsuyo Shinan Koho	1994-2003
Kokai Jitsuyo Shinan Koho	1971-2003	Jitsuyo Shinan Toroku Koho	1996-2003

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 9-509295 A (Apple Computer, Inc.), 16 September, 1997 (16.09.97), Full text; all drawings & WO 95/22867 A1 & US 5557712 A	1-61
X	JP 6-225131 A (Canon Information Systems, Inc.), 12 August, 1994 (12.08.94), Full text; all drawings & US 2599291 A & EP 592147 A3 & EP 592146 A3 & EP 592141 A3 & US 5438649 A & US 5500921 A	1-61

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

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"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

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"&"

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Date of the actual completion of the international search
15 April, 2003 (15.04.03)Date of mailing of the international search report
30 April, 2003 (30.04.03)Name and mailing address of the ISA/
Japanese Patent Office

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INTERNATIONAL SEARCH REPORT

International application No.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 6-225132 A (Canon Information Systems, Inc.), 12 August, 1994 (12.08.94), Full text; all drawings & US 5299291 A & EP 592147 A3 & EP 592146 A3 & EP 592141 A3 & US 5438649 A & US 5500921 A	1-61
X	JP 6-233129 A (Canon Information Systems, Inc.), 19 August, 1994 (19.08.94), Full text; all drawings & US 5299291 A & EP 592147 A3 & EP 592146 A3 & EP 592141 A3 & US 5438649 A & US 5500921 A	1-61
X	JP 1-165441 A (Minolta Camera Co., Ltd.), 29 June, 1989 (29.06.89), Full text; all drawings & EP 321983 A2 & US 5073818 A	1-61
X	JP 1-166669 A (Minolta Camera Co., Ltd.), 30 June, 1989 (30.06.89), Full text; all drawings & EP 321983 A2 & US 5073818 A	1-61
X	JP 63-254863 A (Konica Corp.), 21 October, 1988 (21.10.88), Full text; all drawings & EP 273398 A2 & US 4959711 A & US 5065234 A	1-61